

INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/40978

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) G01V 1/38 US CL 367/021 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U S 367/021, 15, 20, 144, 153, 158, 181/110, 111, 118, 120 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) US-PGPUB, USPAT, USOCR, EPO, JPO, DERWENT, IBM_TDB		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0181328 A1 (DEKOK) 05 December 2002 (05 12 2002)	1-8,12-14,20
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Y		16-19
Y,P	US 2004/0136266 A1 (HOWLID et al.) 15 July 2004 (15.07 2004)	18,19
Y	US 6,002,642 A (KREBS) 14 December 1999 (14 12.1999)	19
A	US 4,693,336 A (NEWMAN) 15 September 1987 (15.09 1987)	
Y	US 5,761,152 A (JACOBSEN et al) 02 June 1998 (02.06 1998)	16,17
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input type="checkbox"/> See patent family annex		
* Special categories of cited documents		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 25 May 2005 (25 05 2005)		Date of mailing of the international search report 17 JUN 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 22313-1450 Facsimile No (703) 305-3230		Authorized officer Steven Meyers <i>[Signature]</i> Telephone No 571-272-3600